


JUN 16 1982

DPM 966

 MATERIAL SAFETY DATA SHEET "ESSENTIALLY SIMILAR" TO OSHA FORM 20 FORM 4040 (Rev. 8-81)		ADDRESS: Pennwalt Corporation 900 First Avenue King of Prussia, PA 19406	
PRODUCT IDENTIFICATION	Pennwalt Product Name 333	Pennwalt Code No. CS 5105	
	Chemical Name and Molecular Formula		Emergency Phone Number(s) Business: (215) 337-6639 Other:
	Synonyms		CAS No.(s)
			Chemical Family Mild Alkaline Cleaner
HAZARDOUS INGREDIENTS	MATERIALS OR COMPONENTS	% w/w	HAZARD DATA (TLV, LD50, LC50, etc.)
	Sodium Silicate 2-butoxy ethanol (skin)	<5.0 6.0	LD ₅₀ 1280 mg/kg (oral-rat) TLV 50 ppm
SHIPPING INFORMATION	Compounds, Cleaning, Liquid		
PHYSICAL PROPERTIES	Boiling Point/Range °C °F	Melting Point °C °F	Freezing Point °C °F
	Specific Gravity (H ₂ O=1) 1.055 @ / 25 °C		Vapor Pressure (mm Hg) @ °C °F
	Solubility in H ₂ O Complete		Vapor Density (Air=1) Mixture
	Appearance and Odor Clear, water-white liquid		Evaporation Rate <input type="checkbox"/> Ether = 1 <input type="checkbox"/> Water = 1 <input type="checkbox"/> Butylacetate = 1 Other pH (1%) 11.4
FIRE AND EXPLOSION DATA	Flash Point °C °F	Test Method None	Flammable Limits Lower % Upper %
	EXTINGUISHING MEDIA <input type="checkbox"/> Water-spray <input type="checkbox"/> Water-fog <input type="checkbox"/> Water stream <input type="checkbox"/> CO ₂ <input type="checkbox"/> Dry chemical <input type="checkbox"/> Alcohol foam <input type="checkbox"/> Foam <input type="checkbox"/> Earth or sand		Autoignition Temperature/Fire Point °C °F
	SPECIAL FIRE FIGHTING PROCEDURES <input type="checkbox"/> Do not enter building <input type="checkbox"/> Allow fire to burn <input type="checkbox"/> Water may cause frothing <input type="checkbox"/> Do not use water		
	UNUSUAL FIRE AND EXPLOSION HAZARDS <input type="checkbox"/> Dust explosion hazard <input type="checkbox"/> Sensitive to shock <input type="checkbox"/> Contamination <input type="checkbox"/> Temperature <input type="checkbox"/> Other (specify):		
REACTIVITY DATA	STABILITY <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	CONDITIONS CONTRIBUTING TO INSTABILITY <input type="checkbox"/> Thermal decomposition <input type="checkbox"/> Photo degradation <input type="checkbox"/> Polymerization <input type="checkbox"/> Contamination	
	INCOMPATIBILITY - Avoid contact with <input checked="" type="checkbox"/> Strong acids <input type="checkbox"/> Strong alkalis <input type="checkbox"/> Strong oxidizers <input type="checkbox"/> Other (specify):		
	HAZARDOUS DECOMPOSITION PRODUCTS - THERMAL AND OTHER (list)		
	CONDITIONS TO AVOID <input type="checkbox"/> Heat <input type="checkbox"/> Open flames <input type="checkbox"/> Sparks <input type="checkbox"/> Ignition sources <input type="checkbox"/> Other (specify):		
SPILL OR LEAK	STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED <input checked="" type="checkbox"/> Flush with water <input type="checkbox"/> Absorb with sand or inert material <input type="checkbox"/> Neutralize <input type="checkbox"/> Sweep or scoop up and remove <input type="checkbox"/> Keep upwind. Evacuate enclosed spaces. <input type="checkbox"/> Prevent spread or spill <input type="checkbox"/> Dispose of immediately <input type="checkbox"/> Other (specify):		
	WASTE DISPOSAL METHOD - Consult federal, state, or local authorities for proper disposal procedures.		

CONTINUED ON
REVERSE SIDE

NA - Not Applicable.

BOE-C6-0209951

TOXICITY	Oral (acute)	
	Dermal (acute)	
	Eye	Inhalation (acute)
	Chronic, Subchronic, etc.	
HEALTH HAZARD INFORMATION	PERMISSIBLE EXPOSURE LIMIT (Specify if TLV/TWA or Ceiling [c])	
	ACGIH 19__	OSHA 19__
	Other:	
	IRRITATION <input type="checkbox"/> Skin <input type="checkbox"/> Severe <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Eye <input type="checkbox"/> Severe <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Mild (transient)	
	CORROSIVITY <input type="checkbox"/> Skin <input type="checkbox"/> 4 hrs. (DOT) <input type="checkbox"/> 24 hrs. (CPSC) <input type="checkbox"/> Eye <input type="checkbox"/> May cause blindness	
	SENSITIZATION <input type="checkbox"/> Skin <input type="checkbox"/> Respiratory <input type="checkbox"/> Allergen <input type="checkbox"/> Inhalation Effects <input type="checkbox"/> Narcotic effect <input type="checkbox"/> Cyanosis <input type="checkbox"/> Asphyxiant	
	LUNG EFFECTS (Specify):	
	OTHER (Specify):	
	<input type="checkbox"/> Repeated contact - skin defatter <input type="checkbox"/> Other (Specify):	
	EMERGENCY FIRST AID INGESTION <input type="checkbox"/> Induce vomiting <input checked="" type="checkbox"/> Do NOT induce vomiting <input checked="" type="checkbox"/> Give plenty of water <input checked="" type="checkbox"/> Get medical attention <input type="checkbox"/> Other (specify):	
DERMAL <input checked="" type="checkbox"/> Flush with soap and water <input type="checkbox"/> Get medical attention <input type="checkbox"/> Contaminated clothing - remove & launder <input type="checkbox"/> Contaminated shoes - destroy <input type="checkbox"/> Other (specify):		
EYE CONTACT <input checked="" type="checkbox"/> Flush with plenty of water for at least 15 minutes <input checked="" type="checkbox"/> Get medical attention <input type="checkbox"/> Other (specify):		
INHALATION <input checked="" type="checkbox"/> Remove to fresh air <input type="checkbox"/> If not breathing, give artificial respiration <input type="checkbox"/> Give oxygen <input type="checkbox"/> Get medical attention <input type="checkbox"/> Other (specify):		
SPECIAL PROTECTION INFORMATION	VENTILATION REQUIREMENTS - Always maintain exposure below permissible exposure limits <input type="checkbox"/> Consult an industrial hygienist or environmental health specialist <input checked="" type="checkbox"/> Local exhaust <input type="checkbox"/> Use with adequate ventilation <input type="checkbox"/> Check for air contaminant and oxygen deficiency <input type="checkbox"/> Other (specify):	
	EYE <input type="checkbox"/> Face shield <input checked="" type="checkbox"/> Safety glasses <input type="checkbox"/> Goggles	
	HAND (GLOVE TYPE) <input type="checkbox"/> Butyl rubber <input type="checkbox"/> Polyvinyl alcohol <input type="checkbox"/> Other (specify): <input checked="" type="checkbox"/> Polyvinyl chloride <input type="checkbox"/> Neoprene <input checked="" type="checkbox"/> Natural rubber <input type="checkbox"/> Poly-ethylene	
	RESPIRATOR TYPE - Use only NIOSH approved equipment <input type="checkbox"/> Self-contained <input type="checkbox"/> Supplied air <input type="checkbox"/> Can or cartridge gas or vapor <input type="checkbox"/> Filter - dust, fume, mist <input type="checkbox"/> Other (specify):	
	OTHER PROTECTIVE EQUIPMENT <input type="checkbox"/> Rubber boots <input type="checkbox"/> Apron <input type="checkbox"/> Other (specify):	
SPECIAL PRECAUTIONS	PRECAUTIONARY LABELING <input checked="" type="checkbox"/> Wash thoroughly after handling <input type="checkbox"/> Do not get in eyes, on skin or clothing <input type="checkbox"/> Do not breathe dust, vapor, mist, gas <input type="checkbox"/> Keep container closed <input type="checkbox"/> Keep away from heat, sparks, and open flames <input type="checkbox"/> Store in tightly closed containers <input type="checkbox"/> Do not store near combustibles <input type="checkbox"/> Keep from contact with clothing and other combustible materials <input type="checkbox"/> Empty container may contain hazardous residues <input type="checkbox"/> Use explosion proof equipment <input type="checkbox"/> Other (specify):	
	Other handling and storage conditions Minimum contact with this and all chemicals is recommended as a good general policy to follow.	
Prepared by Date Address Phone Hugh D. McLaughlin, Jr. 6/82		
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